



Region 4 Inventory and Monitoring Network

Mobile Acoustical Bat Monitoring Annual Summary Report

2012

ROANOKE RIVER NATIONAL WILDLIFE REFUGE



The Region 4 Inventory and Monitoring Network coordinated acoustical bat monitoring on 39 National Wildlife Refuges and 3 Ecological Services field offices in Regions 2, 3, and 4 in 2012. Surveys will establish baseline inventories of bats at each station and contribute to a landscape-level understanding of bat population trends and habitat associations. Bat call data were collected using Anabat SD2 detectors along 8-30 mile transects following the procedures outlined in the Mobile Bat Acoustical Survey Protocol (USFWS 2012).

This report summarizes bat calls collected along transects at your station in 2012. Calls were classified using EchoClass (v1.1) software, but classification of calls to species is not reported at this time due to ongoing software assessment and validation. Calls were geo-referenced and spatially projected for each survey period to identify relative bat use along transects. We will provide a revised annual summary report, transect shapefiles, and spatially referenced data output files once robust classifications to species are available. For surveys in which GPS data were not collected, a summary of the calls is presented without spatial reference.

All submitted call data and survey metadata have been archived and are available on the Mobile Acoustical Bat Monitoring SharePoint site (https://fishnet.fws.doi.net/regions/4/nwrs/IM/bats). Bat call files, GPS data, and survey metadata sheets were reviewed for quality assurance prior to generation of this report. Some submitted data were necessarily excluded due to identified errors in collection processes. All acoustical bat data will be summarized in a comprehensive project annual report following station-level reports.

U.S Fish and Wildlife Service, 2012. Mobile Bat Acoustical Survey Protocol, U.S. Fish and Wildlife Service, Region 4, Division of Refuges

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ROANOKE RIVER NATIONAL WILDLIFE REFUGE

Route Name: RrvNWR1 Company Swamp

Survey Date: 6/27/2012 Survey route completed? ✓

Number of bat calls recorded: 60 GPS data collected? ✓

Total length of transect (miles): 3.42



Observer 1: Becky Bartel

Observer 2: Jean Richter

Start Time: 9:00:00 PM **End Time:** 9:28:00 PM

Start Temp: 75 **End Temp:** 75

Start Wind: 1 **End Wind:** 1

Start Cloud: 0 **End Cloud:**

Start Moon Visible?

✓ End Moon Visible? □

Moon Phase: 1/2

Survey Notes:

Collector notes: Initially, both tracts were run as one continuous effort. There was substantial vegetation cover. QA/QC note: note transect length in analysis; QA/QC of survey data revealed no errors.

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ROANOKE RIVER NATIONAL WILDLIFE REFUGE

Route Name: RrvNWR2 Town Swamp

Survey Date: 6/27/2012 Survey route completed? ✓

Number of bat calls recorded: 70 GPS data collected? ✓

Total length of transect (miles): 9.88



Observer 1: Becky Bartel

Observer 2: Jean Richter

Start Time: 10:05:00 PM **End Time:** 10:58:00 PM

Start Temp: 75 End Temp: 75

Start Wind: 1 End Wind: 1

Start Cloud: 0 **End Cloud:**

Start Moon Visible?

✓ End Moon Visible? □

Moon Phase: 1/2

Survey Notes:

Collector notes: Initially, both tracts were run as one continuous effort. There was substantial vegetation cover. QA/QC notes: QA/QC of survey data revealed no errors.

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